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Notice of Allowability	Application No.	Applicant(s)	
	10/804,107	AOYAMA ET AL.	
	Examiner	Art Unit	
	Hoang V. Nguyen	2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 30 December 2005.
2. ☒ The allowed claim(s) is/are 1-13.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |



**HOANG V. NGUYEN
PRIMARY EXAMINER**

Allowable Subject Matter

1. Claims 1-13 are allowed.
2. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, Yoshinomoto et al (US 6,486,853) discloses a surface mount chip antenna comprising a base made of a dielectric; and at least on terminal portion provided on the mounted face of the base. Yoshimoto, however, fails to specifically teach a concave provided in the mounted face of the base except in the terminal portion; at least one flat and rectangular conductive wire wound around the base, wherein the base of the chip antenna is 5mm or less in thickness and 30 mm or less in length, the depth of the concave is not more than $\frac{1}{2}$ of the thickness of the base, and the flat and rectangular conductive wire is 0.5 to 2 mm in width and 0.05 and 0.2 mm in thickness.

Claims 4 and 12 are allowed for depending on claim 1.

Regarding claim 2, Yoshinomoto discloses a surface mount chip antenna comprising a base made of a dielectric; and at least on terminal portion provided on the mounted face of the base. Yoshimoto, however, fails to specifically teach a concave provided in the mounted face of the base except in the terminal portion; and at least one conductive wire wound around the base, wherein a plurality of conductive wires and at least two of the terminal portions are provided to be responsive to a plurality of frequency bands.

Regarding claim 3, Yoshinomoto discloses a surface mount chip antenna comprising a base made of a dielectric; and at least on terminal portion provided on the mounted face of the base. Yoshimoto, however, fails to specifically teach a concave provided in the mounted face of the base except in the terminal portion; and at least one flat and rectangular conductive wire

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wound around the base, wherein a plurality of the conductive wires and at least two of the terminal portions are provided to be responsive to a plurality of frequency bands.

Regarding claim 5, Ota et al (US 2003/0190896 A1) and Clark (US 6,058,315) teaches a chip antenna arranged in the vicinity of metallic functional component; and filter circuits being connected to the power source side terminal of the metallic functional component. Ota/Clark, however, fails to specifically teach that the filter circuits are high frequency removal filter circuits, wherein the high frequency removal filter circuits being capable of obstructing the resonant circuit of the resonance frequency of the chip antenna.

Claims 6-10 and 13 are allowed for depending on claim 5.

Regarding claim 11, Yoshinamoto discloses a surface mount chip antenna comprising a base made of a dielectric; and at least on terminal portion provided on the mounted face of the base. Yoshimoto, however, fails to specifically teach a concave provided in the mounted face of the base except in the terminal portion; and at least one conductive wire wound around the base; wherein a plurality of conductive wires and at least two of the terminal portions are provided to be responsive to a plurality of frequency bands; and high frequency removal filter circuits connected to the power source side terminal of the metallic functional components, wherein the high frequency removal filter circuits being capable of obstructing the resonant circuit of the resonance frequency of the chip antenna.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Inquiry

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang V. Nguyen whose telephone number is (571) 272-1825.

The examiner can normally be reached on Mondays-Fridays from 8:00 a.m. to 4:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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**HOANG V. NGUYEN
PRIMARY EXAMINER**